

IN THE SPECIFICATION

Please amend page 23 as follows:

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instruction folding as described above eliminates the folding determination logic from the critical path within the decode stage. Thus the overall frequency of the processor, to the extent constrained by the instruction decode time (which is common), may be increased with the present invention, increasing the performance of the processor.

5 Second, the present invention determines folding information during the clock cycle(s) prior to instructions entering the decode stage so that, unlike prior folding schemes, the fold-decoders may take an entire clock cycle or more to determine folding combinations. Determination of more complex folding combinations is thus enabled, increasing the average number of instructions executed per clock cycle and improving processor performance.

10 Although the present invention has been described in detail, those skilled in the art will understand that various changes, substitutions, and alterations herein may be made without departing from the spirit and scope of the invention in its broadest form.